

植 物 研 究 雜 誌

THE JOURNAL OF JAPANESE BOTANY

第十四卷 第十一號 (通卷第百四十七號) 昭和十三年十一月發行

Miscellaneous Notes on the East-Asiatic Pteridophytes with special reference to the Japanese Species (VII)

By

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田川基二：東亞羊齒植物雜考(其七)

77) *Dennstædtia hirsuta* (Sw.) METT. in Ann Lugd. Bat. **3** : 181 (1867).

Davallia hirsuta Sw. in SCHRAD. Journ. Bot. **1800**² 81 (1801); Syn. Fil. 131, 343 (1806).

Microlepia hirsuta (Sw.) DIELS in ENGL., Bot. Jahrb. **29** : 196 (1900), non PR. (1849).

Trichomanes japonicum POIR., Enc. **8** : 79 (1808), non THUNB. (1784).

Davallia pilosella HOOK., 2nd Cent. Ferns t. 96 (1861).

Microlepia pilosella (HOOK.) MOORE, Ind. Fil. 298 (1861).

Fuziifilix pilosella (HOOK.) NAKAI et MOMOSE in Cytologia FUJII Jubilee Vol. 365 (1937).

Trichomanes hirsutum (L. err. det.) THUNB., Fl. Jap. 339 (1784).

Nom. Jap. *Inu-sida*.

Hab. Japan (Hokkaidô, Honsyû, Sikoku, Kyûsyû, Korea, Formosa), East Siberia, Manchuria and China.

Plant covered with shaggy hairs everywhere, sori marginal, both indusia, lower and upper, entirely connate, forming a cyathiform, often slightly reflexed pocket. This little fern is now usually referred to *Microlepia* PR., but in sori and dermal hairs it agrees quite well with the species of *Dennstædtia*

BERNH. It is, I think, most natural to place it in *Dennstædtia* BERNH.

78) **Spicantopsis niponica** (KUNZE) NAKAI

var. **minima** TAGAWA, var. nov.

Rhizoma minus, cum reliquis stipitis vix 1.5 cm latum. Squamæ stipitis breviores vix 8 mm longæ. Frondes minores, sterilibus 5–10 cm longis 1.5–3 cm latis, pinnis 10–15-jugis, mediis 7–15 mm longis 2.5–4 mm latis, venis furcatis, frondibus fertilibus 10–15 cm longis 1–2 cm latis, pinnis soriferis ca. 10–jugis, mediis 5–10 mm longis ca. 2 mm latis, 5–7 mm inter se distantibus.

Nom. Jap. *Hime-sisigasira*, (nom. nov.).

Hab. Kyûsyû. Prov. Ôsumi : Hananoego, Isl. Yaku-sima (M. TAGAWA, No. 853 ! Aug. 18, 1933. Type in Herb. Kyôto Imp. Univ.).

A variety with the smaller rhizome and fronds, and the simpler venation. In typical *S. niponica* NAKAI all parts are much larger. Rhizome up to 5 cm thick including basal remains of stipe. Scales on stipe up to 12 mm long, sterile fronds usually 20–30 cm long by 5–10 cm broad, pinnæ numerous about 5 mm wide, basal anterior vein twice forked, the following as a rule once forked, fertile fronds usually 30–50 cm long by 4–7 cm broad.

79) **Asplenium cuneatiforme** CHRIST in Bull. Herb. Boiss. sér. 2. 4 : 613 (1904); MATSUM. et HAYATA, Enum. Pl. Form. 601 (1906); MAKINO et NEMOTO, Fl. Jap. 1579 (1925).

Asplenium cuneatum (LAM. err. det.) MATSUM. et HAYATA, l. c.; MAKINO et NEMOTO, l. c. 1580 ; OGATA, l. c. Fl. Jap. 6. t. 255 (1935).

Rhizoma breviter repens vel ascendens, squamis lanceolatis integris fusco-brunneis dense obtectum. Stipes cæspitosus, 20–30 cm longus, griseus vel fuscus, supra tenuiter sulcatus, ad basin squamis anguste lanceolatis longe acuminatis integris fusco-brunneis 2–4 mm longis præditus, sursum squamis minoribus lanceolatis basi fimbriato-laceratis parce dispersus. Lamina anguste triangulari-lanceolata, ad apicem acuminatissimum sensim attenuata, 20–40 cm longa, 5–10 cm supra basin lata, in parte dimidia superiore pinnata inferiore bipinnatifida vel bipinnata, distantia ca. 2 cm infra apicem superne sæpe gemmifera, textura subcoriacea ; rachide grisea squamis minimis e basi

fimbriatolacerata lanceolatis parcissime dispersa dein glabrescente ; pinnis alternis vel suboppositis, patentibus usque erecto-patentibus, infra acumen laminæ profunde pinnatifida ca. 15–20–jugis, superne glabris, inferne sub lente squamis e basi fimbriato-lacerata lanceolatis parcissime dispersis, pinnis superioribus oblique lanceolatis, apice acutis, basi cuneatis subsessilibus, margine grosse remoteque inciso-serratis (serrulis obtusis), pinnis inferioribus e basi late oblique cuneata breviter petiolata sensim attenuatis, sæpe falcatis, apice acuminatis, pinnatifidis vel in parte dimidia superiore pinnatifidis inferiore pinnatis, 5–8 cm longis, 1.5–3 cm basi latis, pinnulis vel segmentis oblongis vel obovatis, basi cuneatis sessilibus vel adnatis, apice rotundatis vel subtruncatis dentatis (dentibus obtusis), pinnulis infimis anterioribus maximis, ad 2 cm longis, 1 cm latis ; costis pinnarum utrinque elevatis, venis venulisque utrinque inconspicuis, venulis ad apicem dentis non attingentibus. Sori lineares ascendentes, ad 10 mm longi, indusiis integris ca. 1 mm latis, sporis subreniforme ellipsoideis, periniis laxè rugoso-reticulatis.

Nom. Jap. *Tahasago-yabukuzyaku*, *Hôrai-yabukuzyaku*, *Ôba-no-hôraisida*.

Hab. Fo: mosa. Prov. Taihoku : in rupibus humidis montium Kushaku (U. FAURIE, No. 661 ! *June 8, 1903*) ; Agyoku (J. OHWI, No. 688 ! *Apr. 10, 1933*) ; inter Urai et Agyoku (M. TAGAWA, No. 164 ! *Aug. 3, 1934*) ; inter Urai et Rimogan (M. TAGAWA, No. 267 ! *Aug. 6, 1934*) ; prope Doba, Ratô-gun (M. TAGAWA, No. 125 ! *July 29, 1934*) ; Rimogan (T. Itô ! *Nov. 1914*). Prov. Takao : Kuarusu (E. MATUDA ! *Jan. 1, 1917*). Prov. Taitô : between Daizyurin and Syussuiha (J. OHWI, No. 447 ! *Apr. 1, 1933*) ; inter Miharasi et Miyama (M. TAGAWA, No. 1042 ! *Oct. 3, 1934*).

A beautiful fern growing on mossy tree-trunks or rocks in shady forests. This is very near *A. spathulinum* J. SM. and is distinguished only by the narrower and less divided frond.

80) ***Asplenium arisanense* TAGAWA, sp. nov.**

Asplenium pseudo-falcatum HILL. var. *subintegra* ROSENST. in *Hedwigia* 56 : 334 (1915) ; NEMOTO, Fl. Jap. Suppl. 12 (1936).

Rhizoma breviter repens vel ascendens, squamis lanceolatis longe acuminatis integris dense præditum. Stipes cæspitosus 10–20 cm longus fuscus,

supra vix sulcatus, ad basin squamis lanceolatis longe acuminatis integris 2-3 mm longis præditus, sursum squamis minoribus lanceolatis basi fimbriato-laceratis parcissime dispersus. Lamina anguste lanceolata, ad basin vix attenuata a medio sursum ad apicem longe acuminatissimum sensim attenuata, 20-30 cm longa. 3-5 cm medio lata, unipinnata, textura rigide herbacea crassiuscula; rachide fusca, squamis minimis e basi lacerato-fimbriata lanceolatis parcissime dispersa, dein glabrescente, superne distantia ca. 5 cm infra apicem laminæ gemmifera; pinnis alternis vel suboppositis, breviter petiolatis, patentibus vel leviter ascendentibus, infra acumen laminæ profunde pinnatifida ca. 15-20-jugis, oblique lanceolatis, apice obtusis vel acutiusculis, basi antice truncate ad rachidem parallelis subauriculatis, postice cuneatis, margine irregulariter crenato-serratis, supra glabris, subtus sub lente squamis e basi lacerato-fimbriata lanceolatis parcissime dispersis, pinnis inferioribus maximis, 2-3.5 cm longis, 8-12 mm supra basin latis; costis utrinque plus minus elevatis, venis erecto-patentibus, infimis anterioribus pinnatis, ceteris bifurcatis, venulis ad apicem serræ non attingentibus. Sori lineares, ad 10 mm longi, mediales, 3-6 utrinque, indusiis integris ca. 1 mm latis.

Nom. Jap. *Arisan-yabukuziyaku*.

Hab. Formosa. Prov. Tainan: Bunkikiyo 1500 m in rupibus (U. FAURIE, No. 455^{bis}! May 1914. Type in Herb. Kyôto Imp. Univ.).

This is no doubt most closely related to *A. cuneatiforme* CHRIST, but differs from it by the narrower lanceolate lamina, and the obliquely lanceolate, obtuse or acutish, and never pinnatifid pinnæ.

81) ***Diplazium hachijoense* NAKAI** in Bot. Mag. Tokyo **35**: 148 (1921); MAKINO et NEMOTO, Fl. Jap. 1602 (1925).

Diplazium siroyamaense TAGAWA in Acta Phytotax. Geobot. **2**: 197 (1933), cum syn.; OGATA, Ic. Fil. Jap. **7**, t. 309 (1936).

Nom. Jap. *Siroyama-sida*, *Teriha-siroyamasida*.

Hab. Honsyû (Izu, Ise, Kii, Ettyû, Etizen, Wakasa, Tazima, Nagato), Sikkoku, Kyûsyû, Quelpart, Isl. Amami-Ôsima, and Isl. Okinawa.

In my opinion *D. hachijoense* NAKAI and *D. siroyamaense* TAGAWA represent the same species. The type of *D. hachijoense* is a sterile frond from

Isl. Hatizyô. The first name, having priority, is the valid one.

82) **Athyrium Atkinsoni** BEDD., Ferns Brit. Ind. Suppl. II. t. 359 (1876); C. CHR. in Contr. U. S. Nat. Herb. **26** : 300 (1931); Ind. Fil. Suppl. III. 40 (1934), cum syn.

Nom. Jap. *Tebako-warabi*, *Miyama-Ôinuwarabi*.

Hab. Formosa. Prov. Taityû : Nôkô-goe (J. OHWI, Nos. 3229, 3232, 3234, 3235! *June 1933*); inter Tâtaka et Niitakasita, Mt. Niitaka (M. TAGAWA, No. 404! *Aug. 16, 1934*). Prov. Tainan : Arisan, in rupibus humidis alt. 2500 m (U. FAURIE, No. 501! *June 1914*).

Distr. Himalaya, China, Formosa, and Japan (Higo, Tosa, Iyo, Awa, Tango. Ômi, Hida, Etizen, Mino, Sinano).

A new addition to the Flora of Formosa.

83) **Dryopteris coreano-montana** NAKAI in Bot. Mag. Tokyo **35** : 132 (1921); KOM. et KLOB.-ALISOVA, Key Pl. Far East Reg. USSR. **1** : 64 (1931).

Dryopteris filix mas SCHOTT var. *setosa* CHRIST in Bull. Acad. Int. Géogr. Bot. **1909**, mém. 164(1909); FOMIN in Fl. Sibir. Or. Extr. **5** : 57 (1930); KOM. et KLOB.-ALISOVA, l. c. 67.

Dryopteris crassirhizoma NAKAI var. *setosa* (CHRIST) MIYABE et KUDO, Fl. Hokk. Saghal. **15** (1930); TAGAWA in Acta Phytotax. Geobot. **1** : 306 (1932).

Nom. Jap. *Osida-modoki*, *Ezo-menma*.

Hab. Korea. Prov. Kanhoku : Kanjan-muri (J. OHWI, No. 2858! *July 31, 1930*); Mt. Tôryû-san (J. OHWI, No. 2740! *July 26, 1930*); Mt. Nanhaseki-san (R. SAITÔ, No. 1426! *Sept. 19, 1935*). Prov. Kannan : Mt. Syazitu-hô (G. KOIDZUMI! *July 25, 1933*).

Saghalien. In silvis Takinosawa (U. FAURIE, No. 297! *July 1908*); Kawakita (S. SUGAWARA!); Mt. Suzuya-dake (S. SUGAWARA!); without accurate locality (U. FAURIE, No. 42! *Oct. 1907*).

Honsyû. Prov. Kai : prope Sirane-oike, Mt. Kita-dake (M. TAGAWA, No. 481! *Aug. 15, 1932*).

Distr. Amur, North Korea, Saghalien and Honsyû.

84) **Polystichum inaense** (TAGAWA) TAGAWA, comb. nov.

Dryopteris inaensis TAGAWA in Acta Phytotax. Geobot. **3** : 90 (1934).

Nom. Jap. *Ina-denda*.

Hab. Honsyû. Prov. Sinano : Mt. Toyokuti-yama, Ina-gun (J. SUGIMOTO, No. 4774! July 28, 1925).

Near *P. luchenense* BEDD., differing from which by the smaller size, the narrower scales, and the deeply lacerate indusia. The indusia of this species are rather large and excentrically peltate, i. e. the stalk is attached near the base of shallow sinus. Therefor the indusia appear to be reniform.

85) **Tectaria fuscipes** (WALL.) C. CHR. in Contr. U. S. Nat. Herb. **26** : 290 (1931); Ind. Fil. Suppl. III. 179 (1934), cum syn.; CHING in Sinensia **2** : 14 (1931), cum syn.

Hab. Formosa. Prov. Takao : Tyûsinron, Kizan-gun (S. OKAMOTO! Sept. 24, 1937).

Distr. India, South China, Tonking, and Formosa.

A new addition to the Flora of Formosa. The plant from Formosa agrees well with CLARKE's figures¹⁾, but the fertile frond is more contracted.

86) **Tectaria Griffithii** (BAK.) C. CHR., Ind. Fil. Suppl. III. 180 (1934), cum syn.

Tectaria multicaudatum (WALL.) CHING in Sinensia **2** : 20 (1931), cum syn.

Hab. Formosa. Prov. Takao : Bankinsing secus torrentis montium (U. FAURIE, No. 73! Feb. 1914); Raisha 800 m (U. FAURIE, No. 95! March 1914),

Distr. North India, South China and Formosa.

A new addition to the Flora of Formosa. The plant from Formosa agrees well with CLARKE's figure²⁾, but rachis is less hairy beneath.

87) **Tectaria phæocaulis** (ROSENST.) C. CHR., Ind. Fil. Suppl. III. 183 (1934).

Aspidium phæocaulon ROSENST. in Hedwigia **56** : 345 (1915).

¹⁾ CLARKE in Tr. Linn. Soc. II. Bot. **1** : 534. t. 74, fig. A (1880), sub *Nephrodio membranifolio* PR.

²⁾ CLARKE in Tr. Linn. Soc. II. Bot. **1** : 540. t. 77 (1880), sub *Nephrodio multicaudato* CLARKE.

Tectaria laciniata CHING in Bull. Fan. Memor. Inst. Biol. **2**: 200. t. 15 (1931); in *Sinensia* **2**: 24 (1931).

Sagenia variolata (MOORE err. det.) NAKAI in Bot. Mag. Tokyo **47**: 168 (1933).

Nom. Jap. *Kawari-usubasida*, *Kuroguki-sida*.

Hab. Formosa. Prov. Taihoku: in montibus Kushaku (U. FAURIE, No. 636! *June 6, 1903*); Shinten (U. FAURIE, No. 34! *Jan. 1914*); Urai in lacunis (U. FAURIE, No. 33! *Apr. 1914*). Prov. Takao: Botansya (N. FUKUYAMA, No. 4507! *May 1924*); Kususuku (M. TAGAWA, No. 944! *Sept. 21, 1934*).

Ryûkyû. Isl. Okinawa: Nakagami (G. KOIDZUMI! *May 1923*); Sate (G. KOIDZUMI! *May 1923*); Mt. Tanyû-dake, Haneti-mura (T. KANASIRO, No. 105! *Jan. 5, 1938*); Mt. Okuma-yama, Kunigami-mura (T. KANASIRO, No. 552! *March 20, 1938*).

Distr. South China, Tonking, Formosa and Ryûkyû.

摘 要

77) いぬしだハ今日一般ニいしかぐま屬 (*Microlepia*) PR. ニ入レラレテギルガ、囊堆ノ形狀ハ全クこばのいしかぐま屬 (*Dennstaedtia* BERNH.)ニ一致シテキル。故ニ古ク METTENIUS ガシタヤウニ *Dennstaedtia* ニ入レテ學名ニハ *D. hirsuta* (Sw.) METT. ヲ用ヒルノガヨイト思フ。百瀬氏ハ Gametophyte ノ特徴ヲ考慮シテ新屬 *Fuliifolia* NAKAI et MOMOSE ヲタテ、學名ヲ *F. pilosella* NAKAI et MOMOSE トセラレタガ、Gametophyte ニ就イテ吾人ノ知ルトコロガ極メテ少イ今日デハ不十分ナ比較シカデキナイカラ、コ、デハシバラク考慮ノ外ニオイタ。種名ニハ *hirsuta* ヲ用ヒルノガヨイト思フ。

78) ひめししがしら (新稱) *Spicantopsis niponica* var. *minima* TAGAWA ハししがしらノ小形ノ變種デ、筆者ガ屋久島ノ花ノ江川デ採集シタモノデアル。根莖ハ葉柄ノ基部ト共ニ徑約 1.5 cm、葉柄ノ鱗片ハズツト短クデ約 8 mm 葉ハ小サク、裸葉ハ長サ 5-10 cm 幅 1.5-3 cm、羽片ハ 10-15 對、中部ノ羽片ハ長サ 7-15 mm 幅 2.5-4 mm、側脈ハ 2 叉シ、最下前側ノモノノミソノ後側ノ細脈ガモウ 1 回 2 叉シテキル、實葉ハ長サ 10-15 cm 幅 1-2 cm 囊堆ノアル羽片ハ約 10 對、中部ノ羽片ハ長サ 5-10 mm 幅約 2 mm 互ニ 5-7 mm バカリハナレテキル。ししがしらデハ各部ガズツト大キク、根莖ハ葉柄ノ基部ト共ニ握リホドノ太サガアリ、葉柄ノ鱗片ハ長サ 12 mm ニ達シ、裸葉ハ通常長サ 20-30 cm 幅 5-10 cm 羽片ハ數多ク、幅約 5 mm、最下前側ノ側脈ハ 2 回叉狀ニ分歧シ、他ノ側脈ハ一般ニ 2 叉スルノミ、實葉ハ通常長サ 30-50 cm 幅 4-7 cm デアル。

79) *Asplenium cuneatum* LAM. ニアテテほうらいやぶじやくトカおほばのほうらいしだトカ呼バレテキル臺灣ノ羊齒ハ**なかざごやぶくじやく** *Asplenium cuneatiforme* CHRIST デアル。コレハ FAURIE ガ臺北ニ近イ屈尺デ發見シタモノデ、ルゾノ *A. spatulimum* J. SM. ニ非常ニヨク似テヲリ、僅ニ葉ノ細イコトト羽片ノ切込ガ淺イコトトデ區別ガデキルダケデアル。

80) **ありさんやぶくじやく**ハ FAURIE ガ阿里山デ採集シ、ROSENSTOCK ガ *Asplenium pseudofalcatum* HILL. var. *subintegra* ROSENST. ト命名シタモノデアル。コレハハワイノ *A. pseudofalcatum* HILL. ヨリハたかさごやぶくじやくニ近イモノデアルガ、葉身ハ狹披針形、羽片ハ斜披針形、鋭頭又ハ鈍頭、決シテ分裂シテキナイカラ區別スルコトトガデキル。別種ニシテ *Asplenium arisanense* TAGAWA ト命名シタ。 *A. pseudofalcatum* HILL. ハハワイノモノデたかさごやぶくじやくノ大キイヤウナモノデアル。

81) てりはしろやましだ *Diplazium hachijoense* NAKAI ノ原標本ハ八丈島デ採集セラレタ先取權ノアルしろやましだ *D. siroyamaense* TAGAWA ノ裸葉デアル。從ツテ**しろやましだ**ノ學名ハ *D. hachijoense* NAKAI デアツテ、*D. siroyamaense* TAGAWA ハソノ異名トナル。沖繩、奄美大島、濟州島、九州、四國、本州（伊豆、伊勢、紀伊、越中、越前、若狹、但馬、長門）ニアル。

82) **てはこわらび**ハ臺灣ノ高山ニモアル。ソシテコレハ CHRISTENSEN ガ考ヘルヤウニヒマラヤ支那ニアル *Athyrium Atkinsoni* BEDD. ト同種デアル。異名ガ澤山ニアルガ、コレラノウチデ *Aspidium senanense* FR. et. SAV., *Polypodium leptophyllum* BAK., *Athyrium microsorum* MAKINO ノ三ツハ日本ノモノニ附ケラレタ名前デアル。葉ノ大小、切込ノ程度ニハ頗ル變化ガ多イ。

83) 樺太ノえぞめんまト北鮮ノ**をしだもどぎ**トハ同種デアルト思フ。學名ニハ *Dryopteris coreano-montana* NAKAI ヲ用ヒル。アムールニモアリ、甲斐ノ北岳ニモアル。をしだ *D. crassirhizoma* NAKAI ヨリハ歐洲ノ *D. filix mas* (L.) SCHOTT ニ近イモノデアラウ。

84) **いなでんだ**ハをしだ屬ノモノデハナクテゐるので屬ノモノデアルカラ、學名ヲ *Polystichum inaense* (TAGAWA) TAGAWA ト變更シタ。

85) 印度ヤ南支那、東京ナドニアル *Tectaria fuscipes* (WALL.) C. CHR. ガ臺灣高雄州旗山郡中心嶺デ發見セラレタ。岡本省吾氏ノ採集。臺灣ニハ新發見ノ一種デアル。

86) *Tectaria Griffithii* (BAK.) C. CHR. モ臺灣ニアル。FAURIE ガ高雄州ノ萬金庄トライ社トデ採集シテキル。コレモ印度ヤ南支那ニアルモノデ、臺灣ニハ新發見ノ一種デアル。

87) 琉球ヤ臺灣ニアル**かはりうすばしだ**ハ *Sagenia variolata* MOORE デハナクテ FAURIE ガ臺灣デ發見シタ *Tectaria phaeocaulis* (ROSENST.) C. CHR. デアルト思フ。南支那ヤ東京ニアル *T. laciniata* CHING モ同種デアル。